Claims

- 1. A screening method of a substance that inhibits interaction between anti-troponin I antibody and cardiac troponin I, which comprises measuring and evaluating the inhibitory activity of a test substance on interaction between anti-cardiac troponin I antibody and cardiac troponin I after contacting the anti-cardiac troponin I antibody, the cardiac troponin I and the test substance.
- 2. A screening method of a substance that inhibits the effect of anti-troponin I to a target tissue, which comprises measuring and evaluating the inhibitory activity of a test substance on the effect of anti-cardiac troponin I antibody on a target tissue after contacting the anti-cardiac troponin I, the target tissue and the test substance.
- 3. The screening method according to claim 2, wherein the target tissue is a myocardial cell.
- 4. A pharmaceutical composition of therapy for cardiac disease which is made by steps comprising a step of selecting a substance with activity by the screening method according to any one of claims 1 to 3, a step of manufacturing the above selected substance, and a step of mixing the substance manufactured by the above described step with a pharmaceutically acceptable solvent for formulation.
- 5. A pharmaceutical composition of therapy for cardiac disease, which comprises at least one selected from cardiac troponin I protein, a partial protein thereof, and a modified protein thereof as an active ingredient.

- 6. The pharmaceutical composition of therapy for cardiac disease according to claim 4 or 5, wherein the cardiac disease is dilated cardiomyopathy.
- 7. A therapeutic base material for cardiac disease coupled with a substance selected by the method according to any one of claims 1 to 3.
- 8. A therapeutic base material for cardiac disease coupled with at least one selected from cardiac troponin I, its partial protein, and a modified protein thereof.
- 9. The therapeutic base material for cardiac disease according to claim 7 or8, wherein the cardiac disease is dilated cardiomyopathy.
- 10. An apparatus for therapy of cardiac disease, which comprises a plasma separating apparatus; an extracorporeal immunity absorbing apparatus that contacts between separated plasma and the therapeutic base material for cardiac disease according to claim 7 or 8; and a reflux apparatus which mixes plasma treated with the above described extracorporeal immunity absorbing apparatus into separated hemocytes, and send it back into body again.
- 11. The apparatus for therapy of cardiac disease according to claim 10, wherein the cardiac disease is a dilated cardiomyopathy.
- 12. A method for making an animal model for evaluating cardiac disease, which comprises administering the anti-cardiac troponin I antibody.
- 13. The method for making an animal model for evaluation of cardiac disease according to claim 12, wherein the cardiac disease is dilated cardiomyopathy.

- 14. A method of screening a substance for therapy of cardiac disease, which comprises determining the effect of a test substance to cardiac disease after administration of the substance to an animal made by the method according to claim 12.
- 15. A method of screening a substance for therapy of dilated cardiomyopathy, which comprises determining the effect of a test substance to cardiac disease after administration of the substance to an animal made by the method according to claim 13.
- 16. A pharmaceutical composition for therapy of dilated cardiomyopathy, which comprises a substance that inhibits the production of anti-cardiac troponin I autoantibody as an active ingredient.
- 17. A diagnosis method of dilated cardiomyopathy, which comprises measuring an amount of anti-cardiac troponin I autoantibody.